

AMENDMENT TO THE CLAIMS

1. (CURRENTLY AMENDED) Tool for generating a microstructured surface, comprising:

[[-]] a matrix with a negative of the microstructure to be generated; and

[[-]] a pressure roller driveable over a surface, for pressing the matrix onto the surface,

in which:

the pressure roller and matrix are arranged so that when the pressure roller ~~passes~~ is driven over the surface the matrix executes a rolling movement between the pressure roller and the surfacelayer, so that the negative of the matrix faces towards the surface, and

a device for accelerating the curing of a curable material is arranged so that when the pressure roller ~~passes~~ is driven over the surface ~~it accompanies its the curing acceleration device accompanies the movement of the pressure roller and the curing acceleration device~~ acts on a part of the surface.

2. (CURRENTLY AMENDED) Tool according to claim 1, wherein the ~~matrix-forming material~~ matrix has a Shore hardness A of 25 – 40.

3. (CURRENTLY AMENDED) Tool according to claim 1, wherein a second roller is arranged so that when the tool is driven over the surface the second roller removes the matrix from the surface.

4. (CURRENTLY AMENDED) Tool according to claim 1, wherein ~~the a~~ a surface material of the pressure roller has a Shore hardness A of 20 to 50 ~~and preferably has a diameter of 10 – 50 cm and/or a length of 20 – 100 cm.~~

5. (CURRENTLY AMENDED) Tool according to claim 1, wherein the tool is arranged so that the microstructuring of doubly curved surfaces, ~~preferably of large structures such as aircraft and/or tracked vehicles~~, is permitted.
6. (PREVIOUSLY PRESENTED) Tool according to claim 1, wherein the device for accelerating the curing comprises a lamp and/or a heating device for irradiating and/or heating the surface that can be microstructured.
7. (ORIGINAL) Tool according to claim 6, wherein the lamp is a UV light source.
8. (CURRENTLY AMENDED) Tool according to claim 6, wherein the device for accelerating the curing is mounted so that the curing of ~~the~~ a curable material on the surface that can be microstructured is effected ~~by~~ through irradiation or heating of the matrix.
9. (CURRENTLY AMENDED) Tool according to claim 1, wherein the tool comprises a device for applying ~~the~~ a curable material to a substrate or to the matrix.
10. (CANCELED)
11. (PREVIOUSLY PRESENTED) Method for generating an at least partially microstructured surface, comprising the following steps:
 - a) provision of a surface that can be microstructured,
 - b) provision of a tool according to claim 1,
 - c) microstructuring of the surface by means of the tool.
12. (CURRENTLY AMENDED) Method according to claim 11, comprising the step of curing by the tool ~~the~~ a curable material on the surface that can be microstructured.

13. (PREVIOUSLY PRESENTED) Method according to claim 12, in which the curing takes place through irradiation or heating of the matrix.

14. (PREVIOUSLY PRESENTED) Method according to claim 11, comprising the application of a curable material to a substrate or to the matrix by the tool, so that according to step a) a surface that can be microstructured is provided.

15. (PREVIOUSLY PRESENTED) Object with a multiply curved surface and, in the region of the multiple curvature, an at least partially microstructured surface, wherein the microstructure in the region of the multiple curvature is generated by means of a tool according to claim 1.

16. (CURRENTLY AMENDED) Tool according to claim 2, wherein:

a second roller is arranged so that when the tool is driven over the surface the second roller removes the matrix;

the surface material of the pressure roller has a Shore hardness A of 20 to 50 ~~and preferably has a diameter of 10–50 cm and/or a length of 20–100 cm;~~

the tool is arranged so that the microstructuring of doubly curved surfaces, ~~preferably of large structures such as aircraft and/or tracked vehicles,~~ is permitted;

the device for accelerating the curing comprises a lamp and/or a heating device for irradiating and/or heating the surface that can be microstructured;

the lamp is a UV light source;

the device for accelerating the curing is mounted so that the curing of ~~the~~ a curable material on the surface that can be microstructured is effected ~~by~~ through irradiation or heating of the matrix; and

the tool comprises a device for applying ~~the~~ a curable material to a substrate or to the ~~matrix;~~ matrix.

17. (Canceled)

18. (PREVIOUSLY PRESENTED) Method for generating an at least partially microstructured surface, comprising the following steps:

- a) provision of a surface that can be microstructured,
- b) provision of a tool according to claim 16,
- c) microstructuring of the surface by means of the tool.

19. (CURRENTLY AMENDED) Method according to claim 18, comprising the step of curing by the tool ~~the~~ a curable material on the surface that can be microstructured.

20. (PREVIOUSLY PRESENTED) Method according to claim 19, in which the curing takes place through irradiation or heating of the matrix, and comprising the application of a curable material to a substrate or to the matrix by the tool, so that according to step a) a surface that can be microstructured is provided.

21. (PREVIOUSLY PRESENTED) Object with a multiply curved surface and, in the region of the multiple curvature, an at least partially microstructured surface, wherein the microstructure in the region of the multiple curvature is generated by means of a tool according to claim 11.

22. (New) Tool according to claim 4, wherein the surface material of the pressure roller has a diameter of 10 - 50 cm and/or a length of 20-100 cm.

23. (New) Tool according to claim 16, wherein the surface material of the pressure roller has a diameter of 10 - 50 cm and/or a length of 20-100 cm.